

#2.

Hawaiian Explorations.

D^s. 3820 - D^s. 3846.

Hy. 4053 - Hy. 4073.

Mch. 31 - Apl. 8, 1902.

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Hutchinson
 No. *4053* Date *31 Mar 02*
 Machine. #1 Reel. *Navy*
 Turns *90* Cor. + *9* Depth *99 fms.*
 Shot or lead *36 lbs.*
 Bottom *fm S. bk Sh*
 Bottom temperature *68.50*
 No. of thermometer *92442* Cor.
 Corrected temperature
 Air *79* Surface *75* Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>2-50 40</i>	<i>53.55</i>	<i>90</i>		
<i>51.40</i>	<i>52.50</i>	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

This station number and of Sta No 3819

Lae-o-Ka-Laau Light
Molokai, SE $3\frac{1}{8}$ E. 5 $\frac{5}{10}$ miles.

OK
H.C. 21
2

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

Hot 136.8
ad inf

4600	246
90	237
4510	9
	90
	99

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100	Next numbers or Hy			
200		3820		
300		4053		
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Hutchinson Cat. fig. 3.4
 No. *SV 3820* Date *31 Mar 02*
Sigsbee Machine. #1 Reel. *Navy*
 Turns *59* Cor. + *6* Depth *65 fms*
~~Shot or lead~~ *36 lbs.*
 Bottom *fine, co. S. bk. - Sh.*
 Bottom temperature *72°*
 No. of thermometer *92442* Cor.
 Corrected temperature
 Air *79* Surface *75* Drift *N x W*
X 102
 Trawl or dredge *8' Tanner* *2 min 1 sec* *1 night*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>3-12.00</i>	<i>14.40</i>	<i>59</i>	<i>3-20.00</i>	<i>35.30</i>
<i>12.40</i>	<i>13.50</i>	<i>100</i>	<i>25.40</i>	<i>45.40</i>
		<i>150</i>	<i>28 -</i>	<i>42.50</i>
		<i>200</i>		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Tae-o-Ka Laan Light, Molokai
 S E x S 5/8 E (mag) 5 miles

OK
 H.C.D.
 3

(1 1/8' all told)

4600
 59

246
 240

4541

59

65

65

2500
 2600
 2700
 2800
 2900
 3000
 3100
 3200
 3300
 3400
 3500
 3600
 3700
 3800
 3900
 4000

HO #1368.

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Water haul — net bag
 absolutely empty, though
 net was on bottom
 positively —

Stair



No. *4054* Date *31 Mar 02*
Sigsbee Machine. # *1* Reel. *Star*
Turns *110* Cor. + *11* Depth *121 fms*
~~Shot or lead~~ *36 lbs.*
Bottom *fine - c. S.*
Bottom temperature *62°*
No. of thermometer *72442* Cor.
Corrected temperature
Air *75* Surface *75* Drift
Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>3. 57. 30</i>	<i>3. 55. 15</i>	0		
<i>57. 30</i>	<i>54. 10</i>	100		
<i>57. 40</i>	<i>3. 52. 00</i>	<i>110</i>		
		200		
		300		
		400		
<i>This station of 5-3820.</i>		500	<i>marks end</i>	
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Lae-o-ka-Lau Light Molokai,
S E x E. (mag) 5 5/10 miles

OK
JTCB
3

4600 246
110 235
4490 14
110
124

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

40# 1358.

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Staley



No. *D-3821.* Date *31. Nov '02.*

Machine. Reel.

Turns — Cor. + — Depth *6 fms-*

~~Shot or lead~~ *Hand*

Bottom *co. S.*

Bottom temperature

No. of thermometer } *none* Cor.

Corrected temperature

Air *76°* Surface *76°* Drift *none*

Trawl or dredge *Electric Light + 2 Dip Nets.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>[Handwritten line]</i>	<i>[Handwritten line]</i>	0	<i>7-10-</i>	<i>8-20</i>
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Anchorage, South coast Molokai Id.			
Laan Light	2500	Molokai,	
N x N. (mag)	2600	2 8/10 miles	
	2700		
	2800		
	2900	HO # 1368.	
	3000		
	3100		
	3200		
	3300		
	3400		
	3500		
	3600		
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Light easterly air - sea smooth; gentle swell. Fair and pleasant; warm.			
50				
100				
200				
300				
400	Dip-net catch: Heteronereis very abundant; a few other annelids; many shrimps & crab megalops; 2 octopuses; 2 siphon- ophores; 2 kinds Synodus, a few myxus, 1 atherina, 2 upneus (?); many gobioids; several ktenoids - Large eel taken about 11 pm. by same means -			
500				
600				
700				
800				
900				
1000				

REMARKS:

Also set lobster-pot on sand bottom near
ship, from 6³⁰ pm to 6³⁰ am. salt herring
bait - not disturbed - no catch -
From 6 to 7 pm 7 hand lines, salt
herring bait, over side - no catch -

No. 44/055

Date 1 April 02.

Sigsbee Machine, No 1 Reel. Navy

Turns 21. Cor. + 2 Depth 23 fms

Shot or lead 36 Lbs

Bottom fm. S. bk. Sh.

Bottom temperature 75.5 ()

No. of thermometer 92442. Cor.

Corrected temperature

Air 71 Surface 75 Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

7.14.40 7.15.45
7.15.00 7.15.05

0

1

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Tide Light, No. 1		19/10 miles	
N 34° W. Group		2500	
		2600	
		2700	
		2800	910 # 1360.
		2900	
		3000	
		3100	
		3200	
2500		3300	
21		3400	
75-7		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *Hy. 4056* Date *1 April*
Isobee Machine. Reel.
 Turns *32* Cor. + *3* Depth *35 fms.*
~~Shot or lead~~ *36 Lbs.*
 Bottom *fine gy. s. bk. sh.*
 Bottom temperature *77.0* (?)
 No. of thermometer *92442*. Cor.
 Corrected temperature
 Air *71*. Surface *75* Drift
 Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>Ans. 7.28.15</i>	<i>30.20</i>	0		
<i>28.57</i>	<i>29.10</i>	<i>32</i>		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Laua Light, Honolulu		N 43° W. 3 miles	
5N 11000 1568		2500	He #1368
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
4600	246	3500	
32	243	3600	
1568	3	3700	
	32	3800	
	35	3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Cast for 17.6

No. *Dr 2822* Date *1 Aug 12**Sigsbee* Machine. #1 Reel. *Wing*Turns *41* Cor. + *4* Depth *45 fms.*Shot or lead *36 lbs*Bottom *fine S. bk S.*Bottom temperature *76.1° (77)*No. of thermometer *7442* Cor. *2.348*

Corrected temperature

Air *76* Surface *76* Drift *(21°)*Trawl or dredge *Sigsbee*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

*7:55.30**46.55*

0

*7:55.30**25.40**8:00.30**46.30**41*
100
*78.0**8:00.30**8.20.30*

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

No. *3533* Date *12 June 1902*Machine. *#1* Reel. *Hand*Turns *71* Cor. + *9* Depth *78 fms*Shot or lead *36 lbs.*Bottom *fine sand & coral*Bottom temperature *69°*No. of thermometer *92442* Cor.

Corrected temperature

Air *76* Surface *75* Drift *1.6 3/4 E*Trawl or dredge *8' Tanner, 2' dip net, 2' dredge*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

<i>1 32.10</i>	<i>40</i>	<i>0</i>	<i>5 45.50</i>	<i>37.10</i>
<i>35 —</i>	<i>8. 35.10</i>	<i>71</i>	<i>54.40</i>	<i>32.05</i>
		<i>100</i>	<i>54.30</i>	<i>26.30</i>
<i>This station</i>		<i>175</i>	<i>54.20</i>	<i>9-25</i>
<i>also made and</i>		<i>200</i>	<i>54.10</i>	
<i>July 31 3822</i>		<i>225</i>		
		<i>250</i>		
		<i>300</i>		
		<i>400</i>		
		<i>500</i>		
		<i>600</i>		
		<i>700</i>		
		<i>800</i>		
<i>Sand dollars,</i>		<i>900</i>	<i>peachins,</i>	<i>coral-like</i>
<i>myxidium; 1 fish</i>		<i>1000</i>	<i>paracrinetes</i>	<i>cinetus.</i>
		<i>1100</i>		
<i>Dredge contents:</i>		<i>1200</i>		
<i>1 Octopus.</i>		<i>1300</i>		
		<i>1400</i>		
		<i>1500</i>		
		<i>1600</i>	<i>estone</i>	
<i>valleys;</i>		<i>1700</i>	<i>seil ki</i>	
<i>medusae, hydroids,</i>		<i>1800</i>	<i>br</i>	
<i>gorgonians, anemones,</i>		<i>1900</i>		
<i>corals, Laellibranch</i>		<i>2000</i>		
		<i>2100</i>		
		<i>2200</i>		
		<i>2300</i>		
		<i>2400</i>		

Lace Light, Helian,			
N 44° W. 5 1/2 miles			
		2500	
		2600	
		2700	
		2800	360 = 1328.
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
4600	246	3500	
71	239	3600	
4529	7	3700	
	71	3800	
	78	3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
48	74°	80481		
63	70.4	80469		
78	67.2	75445		
200				
300				
400				
500	Sea smooth, gentle swell - light breeze from N.E. & S.E. Partly overcast, warm. Billed up by floating kelp, etc.			
600				
700				
800				
900				
1000				

REMARKS:

Surf in at 8.49 am
 " " in at 8.59 "
 3 small fishes.

Laua dig. Molokai			
N 45° W 11 mi		2500	6 1/2 miles
01		2600	
3500		2700	
		2800	10 = 1368.
		2900	
		3000	
		3100	
2 1/2 mi		3200	
		3300	
		3400	
460	206	3500	
202	226	3600	
4398	20	3700	
	202	3800	
	222	3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
142	61°	80281	7	
182	56.3°	80469		
222	49.5°			
100				
200				
300	Surface sample from 1000			
400	Surf - Light water, blue - Partly			
500	medium - Partly			
600	medium.			
700				
800				
900				
1000				

REMARKS:

Surface net 5/10.15 A.M.
 " " in " 10.16 "

Inspected net. Some specimens
 kept for study of eggs, as well
 as other copepods.

No. *3125*Date *June 1, 1887*Machine. *Sigsbee*Reel. *Hand*Turns *453* Cor. + *45*Depth *498 fms.*~~Shot or lead~~ *36 lbs.*Bottom *gy. M. S.*Bottom temperature *62.0*No. of thermometer *92442*Cor. *1.66*Corrected temperature *60.34*Air *78*Surface *75*Drift *3/4 E.*Trawl or dredge *Open Inter.*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

*11 23.10**35.15**0**11.42**11.04**24.25**34 =**100**45.50**5**25.30**32.50**115**46.30**11.42**26.30**31.50**200**27.30**30.30**300**28.20**29.30**400**500**600**700**800**900**1000**1100**1200**1300**1400**1500**1600**1700**1800**1900**2000**2100**2200**2300**2400*

Laan Light, Holbrook

N. 53° W. 8 fathoms

12/10/22

		2500	
		2600	
		2700	
		2800	110 # 1865.
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
4600	246	3500	
403	201	3600	
4147	45	3700	
	453	3800	
	498	3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

1 Flounder; 1 aiphatome; a

No. *1125* Date *1 Apr 02*
 Machine. *Reel.*
 Turns *1* Cor. + *3* Depth *40 fms*
~~Shot or lead~~ *36*
 Bottom *-g. l. M. co. R.*
 Bottom temperature *41.5*
 No. of thermometer *72-2* Cor. *5.00*
 Corrected temperature *56.5*
 Air *74°* Surface *76°* Drift *none*
 Trawl or dredge *5 fms. 2 lead, 100 lb. dredge*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>12.15</i>	<i>11.12.00</i>	0	<i>12.19.00</i>	<i>11.10.00</i>
	<i>1.10</i>	100	<i>12.20.00</i>	<i>11.05.00</i>
	<i>12.10</i>	200	<i>12.21.00</i>	<i>11.00.00</i>
	<i>11.10</i>	300	<i>12.22.00</i>	<i>10.55.00</i>
<i>12.15</i>	<i>11.10.00</i>	<i>371</i>	<i>12.23.00</i>	<i>10.50.00</i>
		500	<i>12.24.00</i>	<i>10.45.00</i>
		600	<i>12.25.00</i>	<i>10.40.00</i>
		700	<i>12.26.00</i>	<i>10.35.00</i>
		800	<i>12.27.00</i>	<i>10.30.00</i>
		900	<i>12.28.00</i>	<i>10.25.00</i>
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:
Trawl, dredge, and Towals =
10 gorgonians.

No.

3827

Date

1-11-12

Machine.

Reel.

Turns 337

Cor. +

34

Depth

111

~~Shot or lead~~

36 lb.

Bottom

lt. gy. m. N.

Bottom temperature

42.1

No. of thermometer

92442

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

1105.40

0

2-20-00

11.30

100

21.00

11.20

200

21.10

11.10

300

21.20

11.00

400

21.30

10.50

500

21.40

10.40

600

21.50

10.30

700

22.00

10.20

800

22.10

10.10

900

22.20

10.00

1000

22.30

9.50

1100

22.40

9.40

1200

22.50

9.30

1300

23.00

9.20

1400

23.10

9.10

1500

23.20

9.00

1600

23.30

8.50

1700

23.40

8.40

1800

23.50

8.30

1900

24.00

8.20

2000

24.10

8.10

2100

24.20

8.00

2200

24.30

7.50

2300

24.40

7.40

2400

24.50

7.30

N 54° 30' W (true)		103	10 miles
	2500		
	2600		
	2700		
	2800		
	2900		
	3000		
	3100		
	3200		
	3300		
	3400		
	3500		
	3600		
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Blake trawl & 1 lb dredge:
 Sponges, hydroids, green
 mud; shells; etc.; sponge-

No. 3828

Date / 12 11 2

Machine. /

Recl. /

Turns 76

Cor. +

Depth 112

Shot or lead 36 lb

Bottom G. brk sh.

Bottom temperature

No. of thermometer 9244

Cor. 36

Corrected temperature

Air 74

Surface 76

Drift

Trawl or dredge

Trawl & dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

P.M. DOWN.

UP.

0

3.47.10

4.5.10

100

51.50

200

56.40

300

4.02.10

400

05.50

500

09.30

600

13.20

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Dr. No 3827.

Seam Light, Molokai
 X 5607 (1000)

511
 500

11 miles -

4241368

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
246	3400	
217	3500	
24	3600	
210	3700	
319	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50	Light breeze - N. E. W. Clouds			
100	strong; Local. Small steam.			
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Pitch -
 11. 1/2; 10. 1/2; 10. 1/2;
 2 kinds gorgonian; 2 kinds stony
 coral.

No. *4057* Date *1 October 1907*

Machine. *Reel Navy*

Turns *255* Cor. + *26* Depth *281*

Shot or lead *36 Lbs*

Bottom *ky. fm M.*

Bottom temperature *44.9*

No. of thermometer *80481* Cor.

Corrected temperature

Air *77* Surface *76* Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

PM *3.50* *5 01.10*

1.50 *5 02.10*

4.56.20 *5 07.00*

4.57.00 *4.58.00*

This station Dr. 3828

Mar. 50 and

Laan Light, Molokai		X 6200 (map)		13 miles	
<div>4600 255 - 4345</div>	<div>246 200 26 255 - 281</div>	2500			
		2600			
		2700			
		2800	20 = 1305		
		2900			
		3000			
		3100			
		3200			
		3300			
		3400			
		3500			
		3600			
		3700			
		3800			
		3900			
		4000			

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *Δ-3829* Date *1 Apr '02*

Machine. Reel.

Turns *—* Cor. *+* Depth *20 fms.*Shot or lead *Hand*Bottom *hard S.*

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *73* Surface *75* Drift *None*Trawl or dredge *Elect. Light 2*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

0

*7.40 -**9.00 -*

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*At 8.10 a. Steam launched boat out
 Whiteport arrived at
 8.40 a. Light was
 1.10 p.m. and returned at 9.40 a.*

Anchorage on Lanai

Off Anchor Point 3/4 mile -

5000 fathoms 2600 2700 2800 2900 3000 3100 3200 3300 3400 3500 3600 3700 3800 3900 4000

OK

JK

3100-3500

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	<i>Light to gentle</i>			<i>surface</i>
50	<i>to. N. N. of clear</i>			<i>of bottom.</i>
100	<i>Small sea. gentle</i>			<i>fine.</i>
200				
300	<i>Anchored shore anchorage of 6 fms. 2.</i>			
400				
500	<i>fine to medium</i>			<i>fine to medium</i>
600	<i>fine to medium</i>			<i>fine to medium</i>
700	<i>fine to medium</i>			<i>fine to medium</i>
800	<i>fine to medium</i>			<i>fine to medium</i>
900	<i>fine to medium</i>			<i>fine to medium</i>
1000	<i>fine to medium</i>			<i>fine to medium</i>
	<i>Surface net - from launch =</i>			

REMARKS:

Shore collecting - Lanai shore:

Many fiddler crabs, etc. etc. etc.

petrosclites algae

No. *3880* Date *2-12*Machine. #1 Reel. *1*Turns *247* Cor. + *25*Depth *272* m~~Shot or lead~~ *36*Bottom *lt. br. M*Bottom temperature *45.2*No. of thermometer *80481*Cor. *81.6.*

Corrected temperature

Air *76*Surface *75*

Drift

~~Trawl or dredge~~ *mag*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

*8-46.35**52.40*

0

*8-56.30**42.30**47.30**51.40*

100

*9-01.20**37.40**48.30**50.30*

200

*05 =**33.35**48.40**50.10**247*
300*15.40**27.40*

400

*12.10**9-25 =*

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Laan Light, N. 1/2 S. 1/4 Sec. 16, T. 14 N., R. 10 E., S. 10.		13 miles	
N 64° 30' E. (true)		2500	
C/L		2600	
H.C. 5		2700	
		2800	015 # 1368.
		2900	
		3000	
		3100	
23/10 ^m all below		3200	
		3300	
4600	246	3400	
247	221	3500	
4353	23	3600	
	247	3700	
	272	3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Probably not on bottom but very small portion of time.			
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Little
 nothing of value. S. V.

No.

3531

Date

Apr 2 1902

Machine.

Reel.

Turns

237

Cor. +

24

Depth

261 fms

Shot or lead

36

Bottom

lt. br. M. S. C. R.

Bottom temperature

45.1

No. of thermometer

51481

Cor.

Corrected temperature

56.7/66.

Air

75

Surface

75

Drift

1.84 E

Trawl or dredge

5' beam, 1 line trawl

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

9-43.00

53.00

0

9-53.00

51.20

44.10

49

100

57.00

52.40

45.10

45.10

200

10-03.00

47.10

46.40

47.30

237

08.25

44.40

300

11.45

39.30

400

425

14.45

35.10

500

445

17.45

30.10

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Loran Light, Molokai.			
N 56° W. 11.6 mi.		2500	13 ⁶ / ₁₀ miles
O.K. H. 50.		2600	
		2700	
		2800	
		2900	
		3000	
18 ¹ / ₁₀ miles		3100	
		3200	
		3300	
		3400	
		3500	
4600	246	3600	
237	222	3700	
4363	224	3800	
	237	3900	
	261	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Frame covered with Not fully covered, cracked Use wet glass front on 1 tail weight.			
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Patch in remains of net &
 1 euryonarian (1212); 1 ure

No. *44 4056* Date *2 Apr 02*
 Machine. # *16* Reel. *Thompson*
 Turns *162* Cor. + *16* Depth *178 fms*
 Shot or lead *36 lbs.*
 Bottom *lt. br. M.*
 Bottom temperature *52.8*
 No. of thermometer *80481* Cor.
 Corrected temperature
 Air *74* Surface *76* Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>10-54.0</i>	<i>08.54</i>	0		
<i>57.50</i>	<i>02.40</i>	100		
<i>11-00 40</i>	<i>11-02 =</i>	162		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*This station marked
 end of Sta 3831*

Sun Light, Molokai

N 56° 71.5 m

15³/₁₀ mile

OK

505

11/2

		2500	
		2600	
		2700	
		2800	<i>1580 1368</i>
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
<i>4600</i>	<i>246</i>	3500	
<i>162</i>	<i>238</i>	3600	
<i>4438</i>	<i>16</i>	3700	
	<i>162</i>	3800	
	<i>178</i>	3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

4057

Date

July 2, 1901

Machine.

Reel.

Turns

135

Cor. +

14

Depth

149 fms

Shot or lead

30

Bottom

G. br. S.

Bottom temperature

59.1

No. of thermometer

80481

Cor.

Corrected temperature

Air

74

Surface

76

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

11-16.10

20.20

0

17.10

19.10

100

17.30

18.50

135

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Loran Light, N. 54° W, 15 8/10 mile.		2500	
OK 100 ft. 200 ft. 300 ft. 400 ft. 500 ft. 600 ft. 700 ft. 800 ft. 900 ft. 1000 ft.		2600	
		2700	
		2800	1358
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
4610	232	3600	
135	14	3700	
2465	135	3800	
	129	3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *Hy. 116* Date *Apr 2 12*Machine. *#1* Reel. *1*Turns *130* Cor. + *13* Depth *143 fms*Shot or lead *36 lbs*Bottom *fine m. S. M. R.*Bottom temperature *61.3°*No. of thermometer *80481* Cor.

Corrected temperature

Air *74* Surface *76* Drift~~Trawl or dredge~~

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

<i>11-33</i>	<i>37.00</i>	0		
<i>34.30</i>	<i>36.50</i>	100		
	<i>35.50</i>	200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Lower Right, 17 miles

N 54° 21' (true)

0.50.

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
4400	246	3500	
130	233	3600	
4470	13	3700	
	130	3800	
	143	3900	
		4000	

1365

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

(P. 1, 32, 4)

No. 44021 Date

Machine. / Reel. 1104

Turns 24 Cor. + Depth 27

Shot or lead 16

Bottom M. S. S. L. S. L.

Bottom temperature 75

No. of thermometer 4442 Cor.

Corrected temperature

Air 76 Surface 76 Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Laan Light, Molokai		N 71° West (true) 17 2/10 mi	
		2500	H. # 1368.
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
	41	3500	
	54	3600	
	59	3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *1071* Date *Apr 2 1902*
Machine. *Reel.*
 Turns *9* Cor. + *9* Depth *103 fms*
 Shot or lead *35*
 Bottom *fm br S. bk vi*
 Bottom temperature *61.5*
 No. of thermometer *92442* Cor.
 Corrected temperature
 Air *76* Surface *76* Drift
 Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

0

104

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Lau Right, Molokai			
N 73° W. (m)		2500	16 7/10 mile
		2600	
		2700	H 5 = 1368,
		2800	
		2900	
		3000	
		3100	
		3200	
4120		3300	
237		3400	
1006		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Spain *P. L. 40.4* ✓

No. *115* Date *Apr 2 1882*

Machine. Reel.

Turns Cor. + Depth *114*

Shot or lead *36 lb*

Bottom *gy. sh. bk. co.*

Bottom temperature

No. of thermometer *9244* Cor.

Corrected temperature

Air *76* Surface *76* Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

1.43.40

47.10

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Loran Light, Wadsworth			
N 76° W. (true)			16 miles
		2500	
		2600	
		2700	His count
		2800	1368,
		2900	
		3000	
		3100	
		3200	
4200	2000	3300	
120	200	3400	
2471	200	3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

Date

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

01.09.70

01.09.70

01.09.70

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Lana Light, Molokai			
N 79° 30' W. (mag), 15 1/10 miles			
41 100		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
41 100	2.20 2.20	3500	
	1.4	3600	
	1.3	3700	
	1.17	3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 3832

Date

Machine. 1 Reel. 1

Turns 1

Cor. +

Depth 153

Shot or lead

Bottom 07

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Laan Light, Molokai

N 79° 30' W. 14.5 miles

12/10 1905

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

0. prawns; nautilus(?); octop.;
 echin.; anomuran; 2 kinds fishes.

on
Anchored



No. *L. 3827* Date *Feb. 2nd '02.*

Machine. *1* Reel. *1*

Turns *129* Cor. + *13* Depth *142 fms*

Shot or lead *36 lbs*

Bottom *S. P. brk. sh. R.*

Bottom temperature *65.0*

No. of thermometer *80481*

Cor. *N 11° E*
(N 18° E)
8/10 m

Corrected temperature

Air *75* Surface *76*

Drift

Trawl or dredge. *P. T. S. S. S.*

SOUNDING WIRE.

DREDGE ROPE.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>3.57.50</i>	<i>4.04.35</i>	0	<i>4.11.50</i>	<i>19</i>
		100	<i>16.20</i>	
<i>3.58.55</i>	<i>4.02.55</i>	<i>129</i>	<i>4.20.40</i>	<i>5.09.00</i>
		200		
		300		
		400		
<i>3.59.32</i>		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Trawl Light, Station		15 6/10 m.	
N 82° W. (true)		2500	
		2600	
		2700	410 #1368.
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
	149	3600	
	133	3700	
	129	3800	
	142	3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	to gentle			
50	Light breeze E. N. by S. -			
100	Smooth sea, clear sky.			
200				
300	First Breeze			
400	Strong breeze			
500	2 Trawl & weight			
600	Net badly checked.			
700				
800				
900				
1000				

REMARKS:

Surface Net over at 4.25 pm. 10 m
 " " " " 4.55 " " 10 m
 beyond 10 m. surface water; the
 & other copepods in considerable
 numbers, also a few small fish.

No. *Hy 4265* Date *Apr 2 1888*
Machine. *Hy* Reel. *Hy*
Turns *80* Cor. + *5* Depth *83 fms*
Shot or lead *36 lbs.*
Bottom *sh. gy. for 8 fms. S.*
Bottom temperature *69*
No. of thermometer *80451* Cor.
Corrected temperature
Air *76* Surface *76* Drift
Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

5-23.30
24.10

28.51
27.50

0
~~*100*~~

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*This station is
end of the line 3503*

Saw Light. 11.00 AM.		15 9/10 miles.	
N 84 10 30' W. (approx)		2500	
		2600	
		2700	407 1368,
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
4622	246	3500	
51	238	3600	
4520	8	3700	
	80	3800	
	88	3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 3839 Date April 2, 1902.

Machine. — Reel.

Turns — Cor. + — Depth 8 fms.

Shot or lead Hand

Bottom (rky. cor. h. s. s.)

Bottom temperature

No. of thermometer } None Cor.

Corrected temperature

Air 74. Surface 74. Drift none.

Trawl or dredge 2 Dipnets, 5 fms.

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
		0	6.50	8.45
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

<i>3 1/2 miles off Wharf</i>	2500	<i>Ramissoid</i>
	2600	
	2700	
	2800	<i>Cl. 4106</i>
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	<i>Light</i>			
50	<i>10.11; 10.12</i>			<i>10.11</i>
100	<i>and cloudy.</i>			
200				
300				
400				
500				<i>medium;</i>
600				
700				
800				
900				
1000				

REMARKS:

*Surface net set at 7.30
" " in " 18.25*

surface net:

1 annelid; swi

No. 4066 Date

Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Laan Light, Molokai, O^H
 89° W. (mag) 14 ⁴/₁₀ mile.

corrected = N 79° W.

11

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 4067 Date 1892 1901

Machine. Reel.

Turns Cor. + Depth 59 fms

Shot or lead 35 lb

Bottom fm s. gy. s. sh.

Bottom temperature 71.5

No. of thermometer 80457 Cor.

Corrected temperature

Air 79 Surface 76 Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400

<p>OK.</p> <p>H.O.D.</p> <p>111"</p> <p>4600'</p>	2500	<p>110-1560.</p>
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 2835

Date 3 Apr 07

Machine. 1710

Reel. 1710

Turns 154

Cor. +

Depth 169

Shot or lead 36 lb

Bottom fine br s + sh.

Bottom temperature

No. of thermometer 8047

Cor. N 65° W

Corrected temperature

Air 79

Surface 76

Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

10

0

0

04.50

02.10

01.15

100

16.00

04.15

04.10

11.00

154

20.00

03.30

300

24.00

47.20

400

2.24.15

2.41.00

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

616 11000 11 154 <u>4426</u>	154 169	2500	3407
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

2 kinds corals; 4 kinds crabs;
 many hermit crabs; Munidia; 2 small
 starfish. 2 kinds urchins; holothurians
 etc. 2 kinds gastropods; 1 with

No. *100* Date *1/22/1902*

Sigsbee Machine. # *1* Reel.

Turns *182* Cor. + *17* Depth *182 fms*

Shot or lead *26 lbs.*

Bottom *L. R.*

Bottom temperature *54.0*

No. of thermometer *80481* Cor.

Corrected temperature

Air *76* Surface *76* Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

2:11:50
1:11:50
2:11:50

0

100

182

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
2'00 12-6	3400	
161 7-2	3500	
144 3-1	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

Date

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
4056	3300	
216	3400	
✓384	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

spatangoids; 2 kinds echinoids; 1 penutid
 2 abridans. not anomuran; 1 lamellid
 2 gastropods; 1 worm; 2 fishbones
 1



No. *Hy 4069* Date

Tanner Machine. Reel.

Turns *246* Cor. + *9* Depth *255 fms*

Shot or lead *26 lbs.*

Bottom *gy. M. S.*

Bottom temperature *46.*

No. of thermometer *80* Cor.

Corrected temperature

Air *76.* Surface Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		<i>246</i> 300		
		400		
		500		
		600		
		<i>700</i> 700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
2400	100	3400	
2400	100	3500	
2500	100	3600	
	2400	3700	
	2500	3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Started to use Syphon Sdg
 Make at this station, but
 no air accumulating
 when hole in the floor of the
 chamber, about 4" deep and
 2 1/2" in diameter, higher level

No. 383

Date

Machine Reel.

Turns Cor. + Depth 13 fms.

Shot or lead Hand.

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 74 Surface 76 Drift

Trawl or dredge

4 dip nets

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	8.00 h.	6.15 am
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200	8-00	9-25
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Amboyna S. coast Molokai:

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

P. 17
Molokai 28

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Light blue		to N. N. E.	
50	Small blue		Clear and	
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Few charubdea; heteronereis worms.
A hyporhamphus; 1 leucis; several
labroids; 1 upen

Stacy
 No. *3838* Date *4th Feb. 1907*
 Machine. *Reel. 71*
 Turns *72* Cor. + *8* Depth *72 fms*
 Shot or lead *36 lb.*
 Bottom *gy. br. S. fine*
 Bottom temperature *67*
 No. of thermometer *80481* Cor. *0.1706*
 Corrected temperature
 Air *72* Surface *75* Drift
 Trawl or dredge:

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>1:22:00</i>	<i>1:37:00</i>	0		
<i>33.00</i>	<i>7:36.00</i>	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

lots on rock; & anemones;

REMARKS:

1 shark's tooth (unknown); Bryozoa;
Small barnacles; 1 small sand-doll;
Dead antipatharian stems;
4 asteroids.

No. 54,4070 Date

Signature Machine No. / Reel.

Turns 173 Cor. + 14 Depth 187 fms

Shot or lead

Bottom fm. gy. bk. s.

Bottom temperature

No. of thermometer 80481 Cor.

Corrected temperature

Air 73 Surface 70 Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 115. 5057 Date

Sigsbee Machine. 12/ Reel. No. 1

Turns 235 Cor. + 27 Depth 257 fms

Shot or lead 36 lb

Bottom Lt. br. M. S.

Bottom temperature 46.2

No. of thermometer 80451 Cor.

Corrected temperature

Air 76 Surface 76 Drift 84071

Trawl or dredge : 9' beam

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
8.55.50	7.02.	0		1.02.
57.00	01.10	100		
8.40	07.00.	200		
8.55.50		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

C. R.
J. R.

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600	Catch: 5 malthopsis mitis; 3 m. ...; 1 pelicanus ...			
700				
800				
900				
1000				

REMARKS:

No. *A. 3840*Date *4 April**2:55:00* Machine. *101* Reel.Turns *272* Cor. +*24*Depth *266*~~Shot or lead~~ *36 lbs.*Bottom *G. br. M. S. R.*

Bottom temperature

*46°*No. of thermometer *86*

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

*10.25.30**0**100**27.10**200**300**400**500**600**700**800**900**1000**1100**1200**1300**1400**1500**1600**1700**1800**1900**2000**2100**2200**2300**2400*

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Surf net out at 11.13 am.
 " " in at 11.24

Surface net. Caught nothing

Remains of net (found), contains
 1 arm of brisings; many synapta;

No.

3841

Date

1912

Machine. Recl. Navy

Turns 285 Cor. + 23

Depth 314 fms

Shot or lead 36 lbs.

Bottom S. M.

Bottom temperature 45

No. of thermometer 18

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

5 - Blake

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

12:10		0	12:35	55.20
18.30	24.25	100	37.10	53.10
19.50	23.30	200	43.10	48.20
21.30	22.30	285	48	43.20
		400	52.10	38.10
		500	57.10	33.20
		600	1- 33.30	28.30
		650	11.30 1/2	23.40
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Station Light, Nootka, B.C.
 N 65°

0.11

46.1
 285
 4315
 217
 29

2500
 2600
 2700
 2800
 2900
 3000
 3100
 3200
 3300
 3400
 3500
 3600
 3700
 3800
 3900
 4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

At night on bottom, for
 a short time. Not empty
 and should no

No. *4071* Date *4 Dec 22*
Dredge Machine. #1 Reel. *Man.*
 Turns *305* Cor. + *31* Depth *336*
 Shot or lead, *56 lbs*
 Bottom *gy. m. s. M*
 Bottom temperature *44°*
 No. of thermometer *80481* Cor.
 Corrected temperature
 Air *77* Surface *76* Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>2-02</i>	<i>10.10</i>	0		
<i>03.05</i>	<i>09-</i>	100		
<i>04.20</i>	<i>07.50</i>	200		
<i>05.35</i>	<i>05.50</i>	300		
<i>05.40</i>	<i>05.45</i>	400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Stringer marks and
of the Dredge *3841*

		2500
		2600
		2700
		2800
		2900
		3000
		3100
		3200
		3300
4600	206	3400
315	215	3500
4215	31	3600
	300	3700
	356	3800
		3900
		4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *3112* Date *7**Sigsbee* Machine. *71* Reel. *in*Turns *450* Cor. + *45* Depth *495 fms*Shot or lead *36 lbs*Bottom *fm. br. S. M. R.*Bottom temperature *40.5*No. of thermometer *80481* Cor.

Corrected temperature

Air *74* Surface *75* Drift *63° 11'*Trawl or dredge *5 1/2' Blake - 3 wings 1535*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

<i>2</i>	<i>35.50</i>	<i>46.50</i>		<i>2</i>	<i>35.50</i>	
<i>36</i>	<i>30</i>		<i>100</i>	<i>3</i>	<i>01.20</i>	
<i>37</i>	<i>25</i>	<i>44.45</i>	<i>200</i>		<i>25.20</i>	
<i>38</i>	<i>20</i>	<i>43.40</i>	<i>300</i>		<i>07.50</i>	
<i>39</i>	<i>15</i>	<i>42.35</i>	<i>400</i>		<i>12.50</i>	
<i>40</i>	<i>10</i>	<i>42</i>	<i>450</i>		<i>17.30</i>	
			<i>500</i>		<i>21.20</i>	
			<i>600</i>		<i>25.11</i>	
			<i>700</i>		<i>29.05</i>	
			<i>800</i>		<i>33</i>	
			<i>900</i>		<i>37</i>	
			<i>1000</i>			
			<i>1100</i>			
			<i>1200</i>			
			<i>1300</i>			
			<i>1400</i>			
			<i>1500</i>			
			<i>1600</i>			
			<i>1700</i>			
			<i>1800</i>			
			<i>1900</i>			
			<i>2000</i>			
			<i>2100</i>			
			<i>2200</i>			
			<i>2300</i>			
			<i>2400</i>			

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
4150	246	3500	
4150	201	3600	
4150	45	3700	
	450	3800	
	490	3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Station

No. 4072 Date 14/11/11
Machine. Reel. Tanning
Turns Cor. + 46 Depth 506
~~Shot or lead~~ 26 lb
Bottom fine, dark silt + m.
Bottom temperature 40°
No. of thermometer 80481 Cor.
Corrected temperature
Air 72° Surface 70° Drift
Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		460		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

Date

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

72

Surface

75

Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Lower Latitude. U.S.S.

N 78° 45' W. mag. 28/10 miles.

Handwritten notes:
 C. K.
 J. A. B.
 J. A. B.

2500
 2600
 2700
 2800
 2900
 3000
 3100
 3200
 3300
 3400
 3500
 3600
 3700
 3800
 3900
 4000

Night trucking.

Oil Hole Leno.

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

0 Jan 1

No.

3844

Date

Reel.

Machine.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Corrected temperature

Air

77

Surface

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

7-00

9-00

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 1701 Date Apr 1 1901
 Machine. Reel. 1120-2
 Turns Cor. + Depth 60 fms
 Shot or lead
 Bottom co. s. sh.
 Bottom temperature 71.0
 No. of thermometer 80451 Cor. 873°E
 Corrected temperature
 Air 71 Surface 71 Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
17.40	30.00	0	17.40	30.30
48.20	14.10	100	10.01.10	75.50
		150		1.30
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400	Tangles caught: 2 kinds within; many sponges; many anemones on urchin spines; flat leaf-like coral; many sponges on; still some sponges; 100 sponges; 500 sponges; 500 sponges; 500 sponges; attached to urchin spine			
500				
600				
700				
800				
900				
1000				

REMARKS:

Surface net: 2 or 3 sagittae; a little
Cylindrocapsa; few (and hard) copepods.

No. 2042

Date

Machine. 1

Reel.

Turns

Cor. +

6

Depth

4

Shot or lead

Bottom

cr. tr. S. Sh. D.

Bottom temperature

No. of thermometer

80481

Cor.

24906

Corrected temperature

Air

71

Surface

11

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.	UP.
33.00	10 35.30
4.15	34.40
	3845.

TURNS.

100
150
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400

DREDGE ROPE.

DOWN.	UP.
11.12	
12.12	
13.12	

191

C. L. King
H.

1542

24 0
5
4

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

cidaris, sea urchins;
echinurans; clypeastrids; few gastropods
Octopus; few other mollusks

REMARKS:

Under way at 0700
11:11

507.

No. 4073

Date

Apr 1907

Machine. 1 Reel.

Turns 55

Cor. +

5

Depth

60 fms

Shot or lead

Bottom

Bottom temperature

71.0

No. of thermometer

80481

Cor.

Corrected temperature

Air 76

Surface

76

Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

11.19.10 11.21.30

20.00 11.20.45

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

This station
marked end
of 3846

Saan Light, Holokai Is.
 N 82° 15' W. mag. 19 1/10 miles.

OK
 H.C.B.
 1/2

4600 246

2500
 2600
 2700
 2800
 2900
 3000
 3100
 3200
 3300
 3400
 3500
 3600
 3700
 3800
 3900
 4000

Sto # 1368.

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

*No.**Date**Machine.**Reel.**Turns**Cor. +**Depth**Shot or lead**Bottom**Bottom temperature**No. of thermometer**Cor.**Corrected temperature**Air**Surface**Drift**Trawl or dredge*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

No shot